

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addease COMMISSIONER FOR PATENTS PO Box 1430 Alexandra, Virginia 22313-1450 www.webjo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,779	08/25/2006	Takafumi Kawano	930055-2047	1161
Ronald R Sant	7590 12/31/200 meei	8	EXAM	IINER
Frommer Lawrence & Haug			LE, HOA T	
745 Fifth Aver New York, NY			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			12/31/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/590,779 KAWANO ET AL. Office Action Summary Examiner Art Unit H. (Holly) T. Le 1794 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 26 September 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 and 4-18 is/are pending in the application. 4a) Of the above claim(s) 13-18 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1 and 4-12 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date 09/2008.

Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Application/Control Number: 10/590,779 Page 2

Art Unit: 1794

DETAILED ACTION

 The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Election/Restrictions

2. Applicant's election of claims 1-12 with traverse is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Accordingly, claims 13-18 stand withdrawn from consideration as drawn to a non-elected invention. It is suggested that the forthcoming reply include cancellation of nonelected claims or other appropriate action.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1 and 4-11 are rejected under 35 U.S.C. 102(b) as being anticipated by KONO et al (JP 2004-026543).

KONO teaches a ceramic aggregate comprising dielectric particles having a composition of ZnTiO₃/Zn₂TiO₄(BaO-TiO₂-Nd₂O₃) wherein the particles are formed by wet blending a composite of BaO-TiO₂-Nd₂O₃ with ZnTiO₃ or Zn₂TiO₄. See paragraphs

Application/Control Number: 10/590,779

Art Unit: 1794

[0028]-[0029]. Therefore, the ZnTiO $_3/Zn_2TiO_4$ would necessarily be present on the surface of the dielectric particles. The composition is calcined at 900-1200 Celsius degrees. See paragraph [0029]. With regard to claim 11, a glass component is present in the composition. See paragraph [0029].

Claim Rejections - 35 USC § 103

 Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over KAMEYAMA et al (JP 08-239262)."

Copy provided by Applicant.

[&]quot;Copy provided by Applicant.

Art Unit: 1794

KONO teaches the claimed ceramic aggregate and composition as discussed above. However, the glass component in the composition as taught by KONO has a lower concentration of ZnO and higher B2O3 than those of the claimed composition. See KONO, table 1. Kameyama teaches a dielectric ceramic composition comprising BaO-TiO₂-Nd₂O₃ as a main component and a glass component comprising 45-70wt.% of ZnO, 5-13wt.% of B2O3, 7-40wt.% of SiO2, and 8-20wt.% of Al2O3. The composition is said to be sinterable at low temperature. See Kameyama, abstract. Therefore, one of ordinary skill in the art would have been motivated to replace the glass component in the composition of KONO with the glass component taught by Kameyama in order to receive a ceramic composition with improved sinterability at lower temperature.

Response to Arguments

- Applicant's arguments with respect to claims 1 and 4-12 have been considered but are moot in view of the new ground(s) of rejection.
- Any inquiry concerning this communication or earlier communications from the
 examiner should be directed to H. (Holly) T. Le whose telephone number is 571-2721511. The examiner can normally be reached on 12:30 a.m. to 9:00 p.m. (EST),
 Mondays to Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/590,779 Page 5

Art Unit: 1794

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/H. (Holly) T. Le/ Primary Examiner, Art Unit 1794

December 29, 2008